WHAT IS CLAIMED IS:

A flow rate measuring device comprising:

a post to be provided in a fluid passage for passing a fluid flow so as to extend across a part of the fluid flow:

a measuring duct formed in the post: and

a flow rate detector provided in the measuring duct; wherein the measuring duct has a fluid introduction port formed in an elongated shape and confronted a flow direction of the flow, the measuring duct is contracted so as to have at least a portion thereof between the fluid introduction port and the flow rate detector substantially smoothly narrowed toward a downstream direction of the flow in a longitudinal direction of the elongated shape, and wherein the measuring duct has at least the portion formed into a single hole.

2. The device according to Claim 1, wherein the measuring duct extends substantially linearly in a direction from an upstream side of the fluid passage toward a downstream side of the fluid passage.

3. The device according to Claim 1, wherein the fluid introduction port has a longitudinal length in the longitudinal direction and a transverse length in a transverse direction, the longitudinal length being substantially at least twice the transverse length.

4. The device according to Claim 1, wherein the narrowing measuring duct has an inner wall surface contracted

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toward the downstream direction so that at least a portion of an intersection between an imaginary plane perpendicular to the fluid introduction port and in to a parallel with the longitudinal direction of the fluid introduction port, and the inner wall surface is a substantially smooth curved line.

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5. The device according to Claim 4, wherein the smooth curve is a substantially continuous curved line including a point of inflection.

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6. The device according to Claim 1, wherein the marrows measuring duct is contracted up to at least a position where an upstream end of the flow rate detector is located.

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7. The device according to Claim 1, wherein the marrows measuring duct is contracted up to at least a position where a flow rate detecting element, as the flow rate detector, is located.

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8. The device according to Claim 1, wherein the fluid introduction port is formed in a curved shape.

9. The device according to Claim 1, wherein the measuring duct has at least a portion thereof from a location upstream the flow rate detector to the flow rate detector substantially smoothly narrowed toward the downstream direction in a transverse direction of the

- 25 fluid introduction port.
 - 10. The device according to Claim 1, wherein the measuring duct has a downstream wall end formed with a

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11. The device according to Claim 1, wherein the measuring duct has at least a portion of an outer wall surface formed in a curved or tapered surface expanded outwardly.

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12. The device according to Claim 1, wherein projections are provided near the fluid introduction port so as to extend toward an upstream direction.

13. The device according to Claim 12, wherein the fluid has introduction port is formed in a substantially rectangular shape, and the projections are provided at at least one pair of sides of long sides and short sides of the fluid introduction port, the projections being plateshaped members in parallel with each other.

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14. The device according to Claim 1, wherein the post is axtends into the fluid passage through an opening formed in a side wall of the fluid passage.

15. A flow rate measuring device comprising:

a post to be provided in a fluid passage for passing
a fluid flow so as to extend across a part of the fluid
flow;

a measuring duct formed in the post: and

a flow rate detector provided in the measuring duct;
wherein the measuring duct has a fluid introduction port
formed in an elongated shape and confronted a flow
direction of the flow, the measuring duct is contracted
so as to have at least a portion thereof between a

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location upstream the flow rate detector and the flow rate detector substantially smoothly narrowed toward a downstream direction of the flow in a longitudinal direction of the elongated shape, and wherein the flow rate detector comprises a substantially plate-shaped mounting member substantially extending along the flow direction and in substantially parallel with a longitudinal direction of the fluid introduction port, and a flow rate detecting element carried on a main surface of the mounting member.

16. A flow rate measuring device comprising:

a post to be provided in a fluid passage for passing a fluid flow so as to extend across a part of the fluid flow;

a measuring duct formed in the post: and

a flow rate detector provided in the measuring duct; wherein the measuring duct has a fluid introduction port formed in an elongated shape and confronted a flow direction of the flow, the measuring duct is contracted so as to have at least a portion thereof between the fluid introduction port and the flow rate detector substantially smoothly narrowed toward a downstream direction of the flow in a longitudinal direction of the elongated shape, wherein the measuring duct has at least the portion formed into a single hole, and wherein the flow rate detector comprises a substantially plate-shaped mounting member substantially extending along the flow

direction and in substantially parallel with the longitudinal direction of the fluid introduction port, and a flow rate detecting element carried on a main surface of the mounting member.